

Serial No.: 09/586,410

Attorney Docket No.: 2000P07661US

REMARKS

Upon entry of the instant amendment, claims 1, 3-6, 8-11, 13-16, and 18 are pending. Claims 1, 6, 11, and 16 have been amended to more particularly point out Applicants' invention.

Claims 1-2, 6-7, 11-12, and 16-17 have been rejected under 35 U.S.C. §103(a) as being unpatentable over Chang, U.S. Patent No. 5,230,049 ("Chang") in view of Bapat, U.S. Patent No. 5,291,583 ("Bapat"). Applicants respectfully submit that the claimed invention is not taught, suggested, or implied by Chang or Bapat, either singly or in combination.

As discussed in response to previous Official Actions and the Specification, a computer system according to an implementation of the invention implements a translator and a compiler for compiling a machine readable language, such as ASN.1. When a source file is provided, the system performs a line-by-line compare to determine if the file contains extended grammar constructs of the language. If not, then the source file is compiled. If so, however, then the source file is input to the translator to translate the source file into basic grammar constructs. A basic grammar compiler then compiles the source file, such that the (translated) functions of the extended grammar constructs can be executed as a compiled basic grammar construct compiled code. In certain embodiments, the translator may be implemented having multiple configurable levels of precompilation. In some embodiments, the translation comprises a direct conversion from a source file to a basic source file.

Thus, the claims have been amended to recite "wherein said translation comprises a direct conversion from said source file to said basic source file" In contrast, as described in the Summary of the Invention, and as discussed in Response to previous Official Actions, an object of Chang is to provide a translator for computer source code which *simplifies the writing of pre-compilers*. It is a further object of Chang to allow pre-compilers to be written without requiring detailed knowledge of an underlying supplemental system."

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To do so, Chang provides that:

"a pre-compiler for host language programs which can contain embedded statements in a supplemental language is separated into two major portions. One portion is independent of the host language being processed; supplemental language statements are passed to it in a formal, language independent format. This language independent format is responsible for parsing the language independent statements and generates a list of tasks which represent calls to a run time library.

"The other portion of the pre-compiler is dependent on the identity of the host language to be processed. It locates supplemental language statements in a host language program, transforms them into the language independent format, and communicates the transformed statements into the language independent portion. The language dependent portion receives the task list generated by the language independent portion and generates appropriate source code procedure calls to the run time library."

Chang thus provides for translating language specific program source code containing SQL database commands as supplemental language fragments into a language independent format. The language independent format is converted into a list of tasks and the list of tasks is then converted into source code statements in the language specific format. This is indicated to simplify the task of devising pre-compilers.

The present invention, however, translates extended grammar constructs into basic grammar constructs, "wherein said compiler generates executable code implementing a function of the extended grammar constructs as compiled basic grammar constructs," and "wherein said translation comprises a direct conversion from said source file to said basic source file," i.e., without conversion into a separate language independent format. Furthermore, Chang nowhere provides for "multiple configurable levels of precompilation."

Bapat is relied on for allegedly teaching ASN.1 as "a machine readable language." Bapat, however, relates merely to "storing ASN.1 object instances in a relational database language such as SQL." Col. 1, lines 21-22. Like Chang, Bapat appears to have nothing to do with translating *extended* grammar constructs into *basic*

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grammar constructs, "multiple configurable levels of precompilation," or "wherein said compiler generates executable code implementing a function of the extended grammar constructs as compiled basic grammar constructs" or "wherein said translation comprises a direct conversion from said source file to said basic source file" as generally recited in the claims at issue. As such, the Examiner is respectfully requested to reconsider and withdraw the rejections.

Claims 3-5, 8-10, 13-15, and 18 were rejected under 35 U.S.C. §103 as being unpatentable over Chang in view of Bapat and further in view of "Applicant Admitted Prior Art (APAA)." Chang and Bapat have been discussed above. Applicant Admitted Prior Art is indicated to merely specify particular ASN.1 grammar extensions. Because, however, APAA fails to relate in any way to a translator as recited in the claims at issue (indeed, that is a very object of the present invention), its combination with Chang and Bapat likewise fails to teach, suggest or imply the present invention. As such, the Examiner is respectfully requested to reconsider and withdraw the rejections.

Finally, as discussed above, the claims have been amended to more explicitly recite "wherein said translation comprises a direct conversion from said source file to said basic source file." Applicants agree that, as a general rule "comprising" is open-ended and does not exclude additional unrecited steps or methods. However, it is axiomatic that a combination of references must meet, or teach, suggest, or imply, each and every recited limitation of a claimed invention (e.g., "wherein said translation comprises a direct conversion from said source file to said basic source file"). In this case, neither Chang nor Bapat meet the above-discussed recited limitations, either singly or in combination (Indeed, this is acknowledged in the Official Action, wherein on page 9, reliance on "additional unrecited elements or method steps" is required). As such, the presence or absence of additional unrecited elements or method steps is not germane.

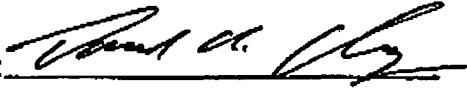
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For all of the above reasons, Applicants respectfully submit that the application is in condition for allowance, which allowance is earnestly solicited.

Respectfully submitted,

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